Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2020-09-29-106** **Date: 28-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-08-20
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	25-08-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2020-09-29-106** **Date: 28-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	–
5	*Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2020-09-29-106 **Date: 29-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-08-20
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	25-08-20
Total weight taken	:	1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-09-29-106 Date: 17/08/2020
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-08-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	10/08/2020	17/08/2020	151.74 X 149.20 X 151.75	22638	8.070	413.2	18.3	18.6
2	PCC	M20	10/08/2020	17/08/2020	149.54 X 151.28 X 151.93	22623	8.643	424.5	18.8	
3	PCC	M20	10/08/2020	17/08/2020	149.08 X 151.09 X 150.91	22524	8.717	421.5	18.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-09-29-106 **Date: 17/08/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-08-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	10/08/2020	17/08/2020	149.48 X 150.75 X 150.15	22535	8.070	414.9	18.4	18.5
2	PCC	M20	10/08/2020	17/08/2020	150.14 X 149.10 X 149.76	22385	8.643	408.6	18.3	
3	PCC	M20	10/08/2020	17/08/2020	149.54 X 149.33 X 151.17	22332	8.717	419.8	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/08/2020

Lab ID	:	CP-2020-09-29-106
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-08-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	10/08/2020	17/08/2020	150.68 X 150.76 X 149.03	22716	8.070	426.3	18.8	18.7
2	PCC	M20	10/08/2020	17/08/2020	151.33 X 150.67 X 150.92	22800	8.643	423.9	18.6	
3	PCC	M20	10/08/2020	17/08/2020	150.80 X 151.15 X 149.24	22792	8.717	429.6	18.8	

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2020-09-29-106** **Date: 24-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-20
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	18/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/09/2020

Lab ID : CP-2020-09-29-106
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency : Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-08-20
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	PCC	M20	10/08/2020	07/09/2020	150.12 X 151.79 X 151.27	22788	8.434	534.1	23.4	23.4
2	PCC	M20	10/08/2020	07/09/2020	151.20 X 149.62 X 150.11	22623	8.268	518.2	22.9	
3	PCC	M20	10/08/2020	07/09/2020	150.74 X 150.73 X 151.18	22721	8.858	542.9	23.9	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-09-29-106** **Date: 03-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	31-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-29-106** **Date: 03-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2020-09-29-106** **Date: 03-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	31-07-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	179	333	33.3	66.7	30-70	55-90	75-100	90-100
5	600 micron	245	578	57.8	42.2	15-34	35-59	60-79	80-100
6	300 micron	182	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	178	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-09-29-106 Date: 17-08-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	13-08-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	150	202	12272	33.805	2754.7	2671.0	Not less than 1800Kg/m^3
2	403	152	202	12374	32.634	2637.3		
3	401	148	202	11988	31.421	2621.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-09-29-106** **Date: 05-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-08-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-09-29-106 **Date: 03-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.8	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	0.285	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT ON COARSE AGGREGATES

Date: 03-08-20

Lab ID	:	CP-2020-09-29-106
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Garbage Flatforms and Lachats Pipelines at Chikkabettahlli in Ward No:03, Attur
Agency	:	Sri Bhumireddy Damodar Reddy, No:48, Kaverinagar KHB Main Road, Bangalore-560048
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/94/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	31-07-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	31-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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